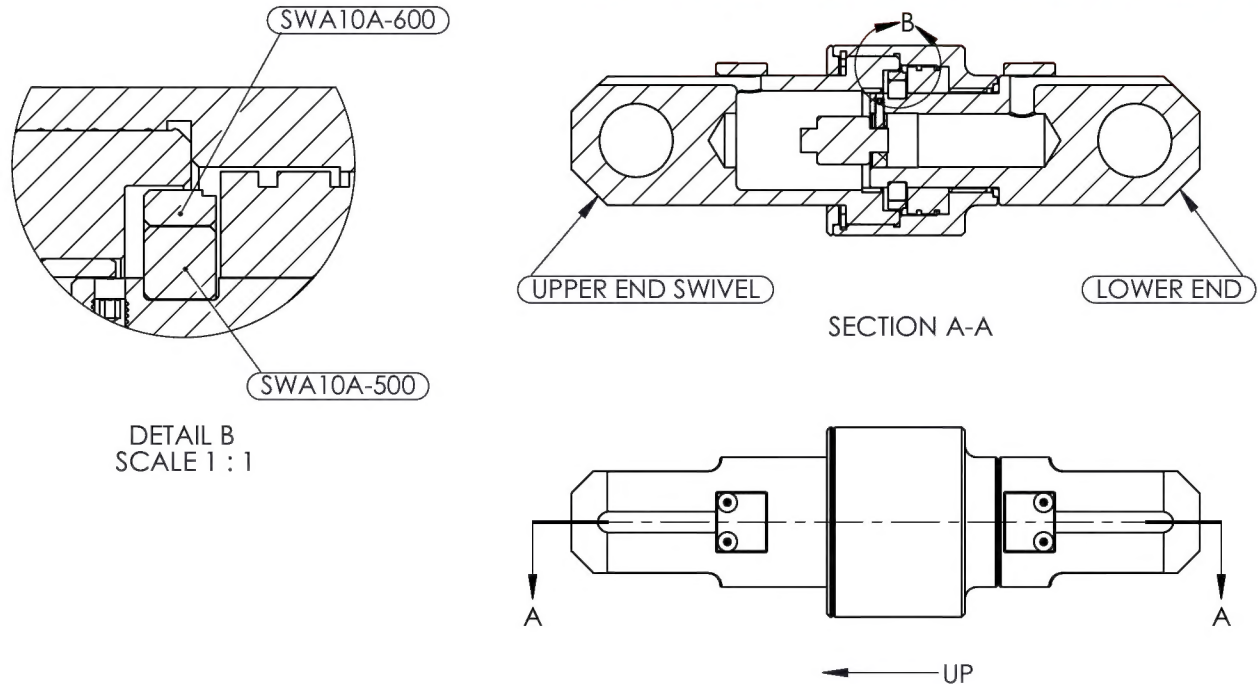


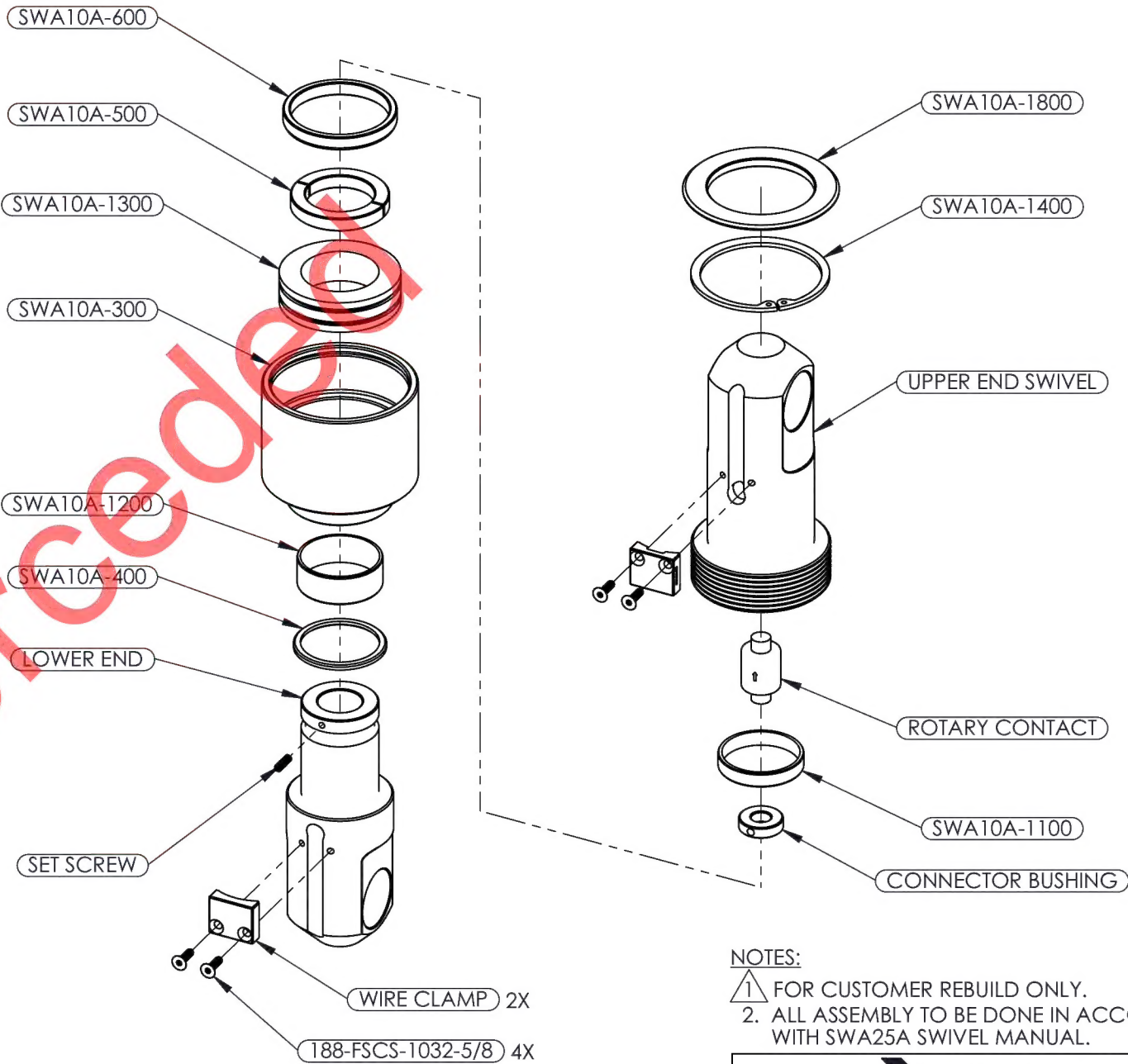
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SEE ATTACHED DEVIATION



-2/QTY.	-3/QTY.	-4/QTY.	-6/QTY.	-8/QTY.	B/O	Part #	Description	Material	B/O INFORMATION OR SPECIFICATIONS
1	1	1	-	-		SWA25A-100	LOWER END		
-	-	-	1	1		SWA25A-110	LOWER END		
1	1	1	-	-		SWA25A-200	UPPER END SWIVEL		
-	-	-	1	1		SWA25A-210	UPPER END SWIVEL		
1	1	1	1	1		SWA10A-300	BEARING HOUSING		
1	1	1	1	1		SWA10A-400	THRUST WASHER		
1	1	1	1	1		SWA10A-500	SEMI - RINGS		
1	1	1	1	1		SWA10A-600	COLLAR		
2	2	-	-	-		SWA10A-700	WIRE CLAMP		
-	-	2	2	2		SWA10A-700A	WIRE CLAMP		
1	-	-	-	-		SWA6A-800A	CONNECTOR BUSHING		
-	1	1	-	-		SWA6A-800B	CONNECTOR BUSHING		
-	-	-	1	-		SWA6A-800C	CONNECTOR BUSHING		
1	-	-	-	-	B/O	SWA6A-900A	ROTARY CONTACT	MERCOTAC #230	
-	1	-	-	-	B/O	SWA6A-900B	ROTARY CONTACT	MERCOTAC #330	
-	-	1	-	-	B/O	SWA6A-900C	ROTARY CONTACT	MERCOTAC #430	
-	-	-	1	-	B/O	SWA6A-900D	ROTARY CONTACT	MERCOTAC #630	
-	-	-	-	1	B/O	SWA6A-900E	ROTARY CONTACT	MERCOTAC #830	
1	1	1	1	1		SWA10A-1100	UPPER DU BEARING		
1	1	1	1	1	B/O	SWA10A-1200	LOWER DU BEARING	(KAMAN MB5020DU)	
1	1	1	1	1	B/O	SWA10A-1300	ROLLER THRUST BEARING	(KAMAN 81210TN)	
1	1	1	1	1	B/O	SWA10A-1400	CIRCLIP	(KAMAN N5000 350 SPP)	
1	1	1	1	1		SWA10A-1800	COVER		
4	6	4	8	12	B/O	SWA6A-1900	1/4" FEMALE SPADE CONNECTOR	(MCMaster-CARR #69525K16)	
-	-	4	4	4	B/O	SWA6A-2000	1/8" FEMALE SPADE CONNECTOR	(MCMaster-CARR #69525K14)	
1	1	1	1	1	B/O	EL-PLUG-F	FEMALE PLUG	PE High Density (MCMaster-CARR #7216K6)	
1	1	1	1	1	B/O	EL-PLUG-M	MALE PLUG	PE High Density (MCMaster-CARR #7216K5)	
4	4	4	4	4	B/O	188-FSCS-1032-5/8	FLAT SOCKET CAP SCREW	S.S. 10-32 x 5/8 (MCMaster-CARR #92210A303)	
-	-	-	-	1	B/O	188-FPSS-1032-3/8	SET SCREW	S.S. 10-32 X 3/8 (MCMaster-CARR #94355A335)	
-	-	-	1	-	B/O	188-FPSS-1032-1/2	SET SCREW	S.S. 10-32 X 1/2 (MCMaster-CARR #94355A337)	
1	1	1	-	-	B/O	188-FPSS-1032-5/8	SET SCREW	S.S. 10-32 x 5/8 (MCMaster-CARR #92311A430)	
1	1	-	-	-	B/O	EL314-SJTOW	3 WIRE	6 FT. (TEXCAN #EL 314-SJ TOW 3/14)	
-	-	1	-	-	B/O	EL414-ARTIC	4 WIRE	6 FT. (TRUCK & AUTO SUPPLY #EL 414-ARTIC 4/14)	
-	-	-	1	-	B/O	EL616-ARTIC	6 WIRE	6FT. (TRUCK & AUTO SUPPLY #EL 616-ARTIC)	
-	-	-	-	1	B/O	EL816-ARTIC	8 WIRE	6FT. (TRUCK & AUTO SUPPLY #EL 816-ARTIC)	
1	1	1	1	1	B/O	600.1319	UP DECAL		

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
A		REPLACED ID DECAL 600.1311 WITH LASER ETCH	11/16/2012	JAG	
1	15-0205	UPDATED TO NEW DRAFTING STANDARDS. SWA6A-1900 CH'D QTY'S: -4 ASSY WAS 8 IS 4, -6 ASSY WAS 12 IS 8, -8 ASSY WAS 16 IS 12. SWA6A-2000 ADDED TO BOM: ASSY -4, -6, -8 QTY 4. 188-FSCS-1032-1/2 DELETED; REPLACED WITH 188-FSCS-1032-5/8 . 188-FPSS-1032-3/8 ADDED TO BOM: ASSY -8 QTY 1. 188-FPSS-1032-1/2 CH'D QTY: -8 ASSY WAS 1 IS 0. EL314-SJTOW CH'D QTY: -2 & -3 ASSY WAS 6 IS 1; ADDED 6FT TO B/O. EL414-ARTIC CH'D QTY: -4 ASSY WAS 6 IS 1; ADDED 6FT TO B/O. EL616-ARTIC CH'D QTY: -6 ASSY WAS 6 IS 1; ADDED 6FT TO B/O. EL816-ARTIC CH'D QTY: -8 ASSY WAS 6 IS 1; ADDED 6FT TO B/O. ADDED REBUILD NOTE. ADDED ENGRAVING NOTES & DETAILS.	8/11/2015	DPD	JAG



- NOTES:
- FOR CUSTOMER REBUILD ONLY.
 - ALL ASSEMBLY TO BE DONE IN ACCORDANCE WITH SWA25A SWIVEL MANUAL.

DART AEROSPACE	
TITLE SWA25A SWIVEL	
DWG NO. SWA25A	REV 1
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1	DRAWN BY: GILBERT APPROVED: <i>D Weil</i> TREAT FINISH SPEC 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING
SCALE 1:4	DATE 11/14/2012
SHEET 1 OF 2	

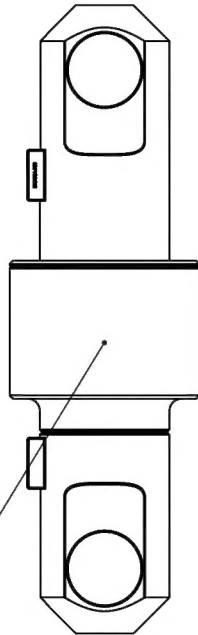
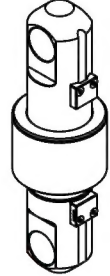
UNDER REVIEW
URF19-830

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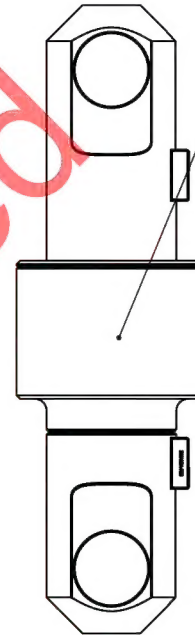
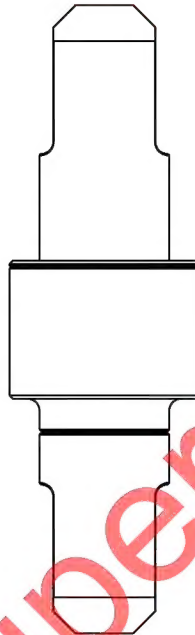
REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED

SEE ATTACHED DEVIATION

ENGRAVE P/N, S/N, SWL



LASER ENGRAVE DART LOGO



Superceded

DART AEROSPACE	
TITLE SWA25A SWIVEL	
DWG NO. SWA25A	REV 1
MAT'L	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT
.XX ± .01	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
SCALE 1:4	DATE 11/14/2012
SHEET 2 OF 2	

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. <u>C series hooks and SWA Swivels</u>	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/>	DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Cross tube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> </div> <div> Eng. (Non-AW) <input checked="" type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Water Jet <input type="checkbox"/> Supplier Quality <input type="checkbox"/> </div> </div>		
Date : _____	Sequence #: _____	QTY Affected : _____	MRB (QS1042) May, 9 2019 <i>M. Lee</i>	
Description Work Order Deviation		Disposition		Completed By
The electrical wires listed under "Acceptable Alternate Wire" on the attached sheet are acceptable to use in place of the "Drawing Specified Wire"		This deviation is acceptable. No change to fit form or function. The job route must specify the wire that is called out on the drawing The inventory P/N must reflect the same P/N that was received from a vendor		Lead hand / Supervisor
				QC / QA Coordinator
Root Cause <div style="display: flex;"> <div style="flex: 1;"> Operator <input type="checkbox"/> Manufacturing Process <input type="checkbox"/> Equip/Tooling <input type="checkbox"/> Handling/Presservation <input type="checkbox"/> Material <input type="checkbox"/> Product Improvement <input checked="" type="checkbox"/> Process Improvement <input type="checkbox"/> Human Factors <input type="checkbox"/> </div> <div style="flex: 1;"> <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Bending <input type="checkbox"/> Crushing <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Mislabeled </div> </div>		FAULT CATEGORY <div style="display: flex;"> <div style="flex: 1;"> <input type="checkbox"/> Contamination <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Incomplete/Unclear Instructions <input type="checkbox"/> Drill Holes <input type="checkbox"/> Fit/Function </div> <div style="flex: 1;"> <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain Direction <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Off-set/Set-up </div> <div style="flex: 1;"> <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Outside Tolerance <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Misread </div> </div>		
Other/Details:				

P/N	Revision	Drawing Specified Wire	Acceptable Alternate Wire
C2	2	MIL-C-27500 11-14416	N/A
C3	2	MIL-C-27500 11-14417	N/A
C10	3	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
C15	2	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
C20	C	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
C45	C	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
C60	C	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
C250	C	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SWA3-2	3	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SWA3-3	3	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SWA3-4	3	EL 414-ARTIC 4/14	Texcan 01121-744A5
SWA6A-2	E	Texcan 01121-724AM	N/A
SWA6A-3	E	Texcan 01121-734A5 or 01004-08-047	N/A
SWA6A-4	E	Texcan 01121-744A5	N/A
SWA6A-6	E	Texcan 04121-764A5	N/A
SWA6A-8	E	Texcan 12701-08-014 or McMaster 7081K38	N/A
SWA10A-2	3	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SWA10A-3	3	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SWA10A-4	3	EL 414 ARTIC 4/14	Texcan 01121-744A5
SWA10A-6	3	EL 616 ARTIC	Texcan 04121-764A5
SWA10A-8	3	Polar Wire 30806	Texcan 12701-08-014 or McMaster 7081K38
SWA15A-2	1	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SWA15A-3	1	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SWA15A-4	1	EL 414 ARTIC 4/14	Texcan 01121-744A5
SWA15A-6	1	EL 616 ARTIC	Texcan 04121-764A5
SWA15A-8	1	EL 816 ARTIC	Texcan 12701-08-014 or McMaster 7081K38
SAW25A-2	1	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SAW25A-3	1	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SAW25A-4	1	EL 414 ARTIC 4/14	Texcan 01121-744A5
SAW25A-6	1	EL 616 ARTIC	Texcan 04121-764A5
SAW25A-8	1	EL 816 ARTIC	Texcan 12701-08-014 or McMaster 7081K38

Under Review Notification

Raised By: MYCHEL BEAUREGARD

Product #: SWA6A, SWA10A, SWA15A, SWA25A, PWSA25A

Date: 19.07.29

Product Name: Swivel Hooks

Part Number (D-Part and 9-Digit) (eg. D3535-11) (eg. D3535-25) (eg. D206-642-143) (eg. RBEM324U3010101-1)	Drawing or Document & <u>Current</u> Affected Revision for each part listed	"Y" or "N" Required for Each Part Do not leave blank							Reserved ECN / URF Log Number	Instructions Relevant to Each Part (including whether CHG #'s will be affected)
		DO NOT SHIP	Red Tag/Quarantine Stock	Advise Customers	Hold all Production	Re-Work Stock	IPP Under Review (Engineer Signoff Required.)	Put Product Specifications Under Review ("Bluefiles")		
SWA6A-8	SWA6A REV. E	Y	Y	N	Y	Y	Y	Y	19-830	See below
SWA10A-8	SWA10A REV. 3	Y	Y	N	Y	Y	Y	Y	19-830	See below
SWA15A-8	SWA15A REV. 1	Y	Y	N	Y	Y	Y	Y	19-830	See below
SWA25A-8	SWA25A REV. 1	Y	Y	N	Y	Y	Y	Y	19-830	See below
PWSA25A-8	PWSA25A REV. A	Y	Y	N	Y	Y	Y	Y	19-830	See below

Description of Issue:

Electrical wire does not fit in hole and slot

No heat shrink call on the drawing

Electrical plugs are called in the BOM but are not required

Electrical wire need to be updated to have flexible wire type

Distribution:

VP Operations

Director of Operations

Director Quality Assurance

QC Coordinator

Director of Engineering

Chief Engineer

Engineering Project Managers

Engineering Clerk

Customer Support Manager

Production Engineers

Production Planners

Purchasing Manager

Technical Support

Product Manager - Solutions Provider

Supply Chain Director / Senior Buyer

Marketing Eugene